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L1	1 S US5935518/PN
L2	1 S US5935818/PN
L3	1 S US5538866/PN

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L2 ANSWER 1 OF 1 USPATFULL on STN

CLM What is claimed is:

1. An isolated nucleic acid encoding an alternatively spliced prostate-specific membrane (PSM') antigen, which antigen is a protein having an amino acid sequence consisting of the sequence set forth in SEC. ID. NO. 2 beginning with methionine at position number 58, wherein said nucleic acid is free of other nucleic acid molecules.
2. The isolated nucleic acid of claim 1, wherein said nucleic acid is a DNA molecule.
3. The isolated nucleic acid of claim 2, wherein said nucleic acid is a cDNA molecule.
4. The isolated nucleic acid of claim 1, wherein said nucleic acid is a RNA molecule.
5. The isolated nucleic acid of claim 2 operatively linked to a promoter of RNA transcription.
6. A vector which comprises the isolated nucleic acid of claim 1.
7. A host vector system for the production of polypeptide, wherein the polypeptide is the alternatively spliced prostate-specific membrane (PSM') antigen, wherein said host vector system comprises the vector of claim 6 and a suitable host cell.
8. A host vector system of claim 7, wherein the suitable host cell is a bacterial cell, insect cell, or mammalian cell.
9. A method for producing a polypeptide, wherein the polypeptide is the alternatively spliced prostate-specific membrane (PSM') antigen which comprises growing the host vector system of claim 8 under suitable conditions permitting production of the polypeptide and recovering the polypeptide so produced.
10. An isolated nucleic acid comprising a promoter sequence associated with the transcription of a gene encoding a human prostate specific membrane antigen, wherein said isolated nucleic molecule has the nucleic acid sequence as set forth from positions 1 to 2485 of SEQ ID NO: 39.

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L3 ANSWER 1 OF 1 USPATFULL on STN

CLM What is claimed is:

1. An isolated nucleic acid molecule encoding a prostate specific membrane antigen having the amino acid sequence shown in SEQ ID NO.: 2.
2. An isolated DNA molecule of claim 1.
3. An isolated DNA molecule of claim 2 operatively linked to a promoter of RNA transcription.
4. An isolated cDNA molecule of claim 1.
5. An isolated cDNA molecule of claim 4 operatively linked to a promoter of RNA transcription.
6. An isolated RNA molecule of claim 1.
7. A vector which comprises the isolated nucleic acid molecule of claim 1.
8. A plasmid of claim 7.
9. The plasmid of claim 8 designated P55A-PSM deposited with the ATCC under ATCC Accession No. 75294.
10. A host vector system for the production of a polypeptide, wherein the polypeptide is prostate specific membrane antigen, which comprises the vector of claim 7 and a suitable host cell.
11. A host vector system of claim 10, wherein the suitable host cell is a bacterial cell, insect cell, or mammalian cell.
12. A method of producing a polypeptide, wherein the polypeptide is prostate specific membrane antigen, which comprises growing the host cells of claim 11 under suitable conditions permitting production of the polypeptide and recovering the polypeptide so produced.
13. A mammalian cell comprising the vector of claim 7.

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